Laboratory Analysis Report

Job ID: 11080217



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :

Houston Tank Farm / Houston, TX

Report To: Client Name: CGH Associates P.O.#.:

Attn: Clark Hickman Sample Collected By: Clark Hickman
Client Address: 16403 Havenhurst Drive Date Collected: 08/05/11

City, State, Zip: Houston, Texas, 77059

A&B Labs has analyzed the following samples...

latrix	A&B Sample ID
Vater	11080217.01
Vater	11080217.02
Vater	11080217.03
Vater	11080217.04
Vater	11080217.05
Vater	11080217.06
Vater	11080217.07
Vater	11080217.08
Vater	11080217.09
Vater	11080217.10
Vater	11080217.11
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Released By: Alisha Rodriguez
Title: Project Manager

Oli Da Rody

Date: 8/8/2011



This Laboratory is NELAP (T104704213-10-2) accredited. Effective: 07/01/2010; Expires: 06/30/2011

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted.

Date Received: 08/05/2011 14:10

Total Number of Pages:

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 11080217 Date: 8/8/2011

General Term Definition

Back-WtBack WeightPost-WtPost WeightBRLBelow Reporting Limitppmparts per millioncfucolony-forming unitsPre-WtPrevious Weight

Conc. Concentration Q Qualifier

D.F. Dilution Factor RegLimit Regulatory Limit

Front-Wt Front Weight RPD Relative Percent Difference

LCS Laboratory Check Standard RptLimit Reporting Limit

LCSD Laboratory Check Standard Duplicate SDL Sample Detection Limit

MS Matrix Spike surr Surrogate
MSD Matrix Spike Duplicate T Time

MW Molecular Weight TNTC Too numerous to count

Qualifier Definition

G&**b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 1001 Job Sample ID: 11080217.01

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 19760 mg/L 20 200 08/05/11 15:46 KS

G&**b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 1002 Job Sample ID: 11080217.02

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 48900 mg/L 100 1000 08/05/11 15:46 KS

G-6

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 1004 Job Sample ID: 11080217.03

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 52500 mg/L 500 5000 08/05/11 15:46 KS

G&**b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 7 (UNA) Job Sample ID: 11080217.04

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 43500 mg/L 500 5000 08/05/11 15:46 KS

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Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 8 (UNA) Job Sample ID: 11080217.05

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 52500 mg/L 100 1000 08/05/11 15:46 KS

G&**b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: TK - 9 (UNA) Job Sample ID: 11080217.06

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result DF Date Time Analyst SM 5220D Chemical Oxygen Demand COD 264000 mg/L 500 5000 08/05/11 15:46 KS

G&**b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: STF - T1 Job Sample ID: 11080217.07

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 326500 mg/L 500 5000 08/05/11 15:46 KS

C***b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: STF - T2 Job Sample ID: 11080217.08

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 53000 mg/L 100 1000 08/05/11 15:46 KS

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Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: STF - T3 Job Sample ID: 11080217.09

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 39400 mg/L 50 500 08/05/11 15:46 KS

G&**b**

Client Name:

Job ID: 11080217

CGH Associates Attn: Clark Hickman

Date 8/8/2011

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: STF - T6 Job Sample ID: 11080217.10

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Water
Time Collected: 12:00

Other Information:

Units DF Rpt Limit Reg Limit Q Test Method Parameter/Test Description Result Date Time Analyst SM 5220D Chemical Oxygen Demand COD 42050 mg/L 50 500 08/05/11 15:46 KS

C***b**

Job ID: 11080217

Date 8/8/2011

Client Name: CGH Associates Attn: Clark Hickman

Project Name: Houston Tank Farm / Houston, TX

Client Sample ID: NTF - OT - 1 Job Sample ID: 11080217.11

Date Collected: 08/05/11 Sample Matrix Water

Date Collected: 08/05/11 Sample Matrix Wat
Time Collected: 12:00

Other Information:

Units DF Test Method Parameter/Test Description Result Rpt Limit Reg Limit Q Date Time Analyst SM 5220D Chemical Oxygen Demand COD 46100 mg/L 100 1000 08/05/11 15:46 KS

QUALITY CONTROL CERTIFICATE



Analysis: Chemical Oxygen Demand Method: SM 5220D Reporting Units: mg/L

Samples in This QC Batch: 11080217.01,02,03,04,05,06,07,08,09

Sample Preparation: PB11080533 Prep Method: SM 5220D Prep Date: 08/05/11 15:40 Prep By: Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
COD		BRL	mg/L	1	10	

QC Type: Dupl	icate					
QC Sample ID:	11080123.01					
	QCSample	Sample			RPD	
Parameter	Result	Result	Units	RPD	CtrlLimit	Qual
COD	136	134	mg/L	1.5	20	

QC Type:	LCS and LCSD														
		LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery					
Parameter		Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual				
COD		300	314	105	300	303	101	3.6	20	80-120					

QC Type: MS and MSD	¿C Type: MS and MSD														
QC Sample ID: 11080123.01															
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec					
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual				
COD	134	400	542	102		•				80-120					

QUALITY CONTROL CERTIFICATE



Analysis: Chemical Oxygen Demand Method: SM 5220D Reporting Units: mg/L

Samples in This QC Batch : 11080217.10,11

Sample Preparation: PB11080533 Prep Method: SM 5220D Prep Date: 08/05/11 15:40 Prep By: Ksudha

QC Type: Method Blank													
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual						
COD		BRL	mg/L	1	10								

QC Type: Dupli	C Type: Duplicate														
QC Sample ID:	11080125.01														
	QCSample	Sample			RPD										
Parameter	Result	Result	Units	RPD	CtrlLimit		Qual								
COD	BRL	BRL	mg/L		20										

QC Type:	LCS and LCSD														
		LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery					
Parameter		Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual				
COD		300	314	105	300	303	101	3.6	20	80-120					

QC Type: MS and MSD	¿C Type: MS and MSD														
QC Sample ID: 11080125.01															
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec					
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual				
COD	BRL	400	398	99.5		•				80-120					

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3A TK-1004		8/5/	<u>'11</u>	X	X				1	X		<u>.</u>	<u>.</u>					
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ATK-9 (UNA)		8/5/	•	×	<u> </u>	_			`	X					 	<u> </u>	· · ·	
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ontainers: VOA - 40 ml vial A/G - Amb	er/Glass 1 L	iter		···P\s	ervatives:		ol)	H - HC	i .	N - HN	10 (0)	S · H ₂ SC	<u>4 19 76 3</u>)4		ntact	∂ørN	Initials 2	اد
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4 oz/8 oz - glass wide mouth P/O - Plas ETHOD OF SHIPMENT	tic/other		 :		OF LADIN				2 3							ARD san-	ot accept vert	ant shareas





Date: 08/08/11

A&B	JobID :	1108021		Da	te Receive	d: 08/	05/2011		Time	Received :	2:10PM			
Clien	it Name :	CGH Ass	ociates											
Tem	perature :	33.3°C		Sa	mple pH:	N/A	1							
					Che	ck Point	ts				Yes	No	N/A	
1.	Cooler seal	present a	nd signe	d.								Χ		
2.	2. Sample(s) in a cooler.													
3.	3. If yes, ice in cooler.													
4.	4. Sample(s) received with chain-of-custody.													
5.	5. C-O-C signed and dated.													
6.	5. Sample(s) received with signed sample custody seal.													
7.	7. Sample containers arrived intact. (If no comment).													
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge F													
<u> </u>														
9.	9. Sample(s) were received in appropriate container(s).													
10.	0. Sample(s) were received with proper preservative X													
11.	All samples	were log	ged or la	beled.							Х			
12.	Sample ID	labels ma	tch C-O-	C ID's							Х			
13.	Bottle cour	nt on C-O-	C matche	es bottles f	ound.						Х			
14.	Sample vol	ume is suf	fficient fo	or analyses	requested						Х			
15.	Samples w	ere receiv	ed withir	the hold	time.						Х			
16.	VOA vials o	ompletely	filled.										Х	
17.	Sample acc	epted.									Х			
Com	ments : Incl	ude action	s taken t	to resolve	discrepanci	ies/prob	lem:							
							re no collectior noon as the c				ient was mac	le awar	e via	
Rece	eived by : D	olopez					Check i	n by/date :	Mgonzal	ez / 08/05/20	011			
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Phone: 713-453-6060 www.ablabs.com